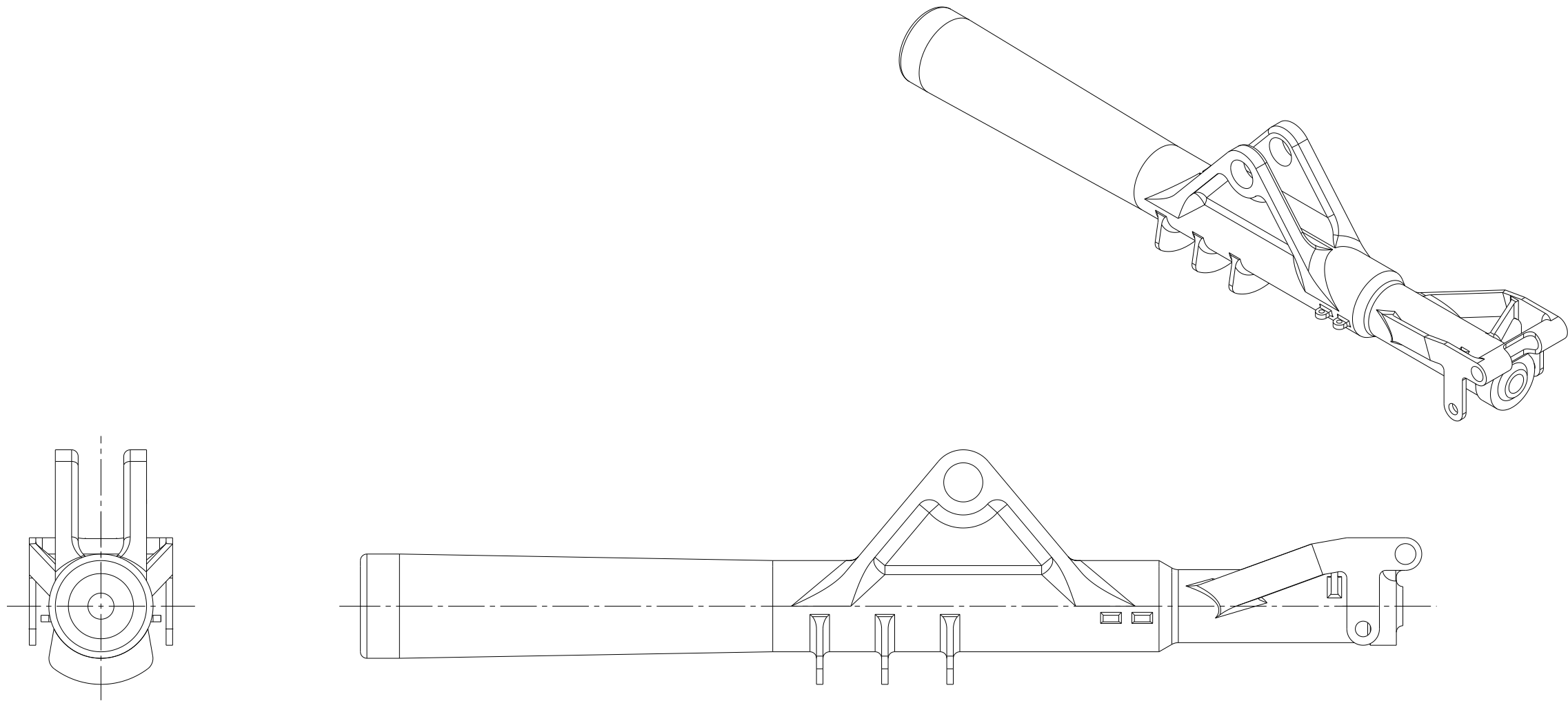
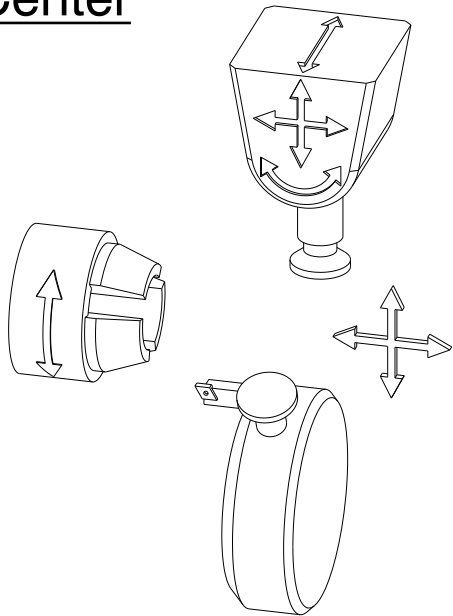


MODEL IN SCALE : Free



MACHINE : 5 Axis Mill Turn Center



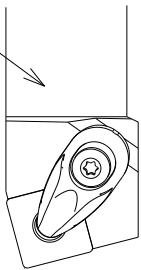
LANDING GEAR

WORKPIECE MATERIAL -Ti-6Al-4V, Ti-5553, 300M

1

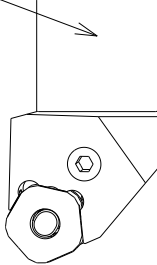
Unspecified Tolerances	Draw			Customer: TUNGALOY		Japan	Member MTC Group Tungaloy	
	Design			Designation:			Dwg.No.	
Dim.s: -.-	Check			LAYOUT-LANDING GEAR-62312			32448865-HCL	
Angles: -.-	Appr.			Process		Layout.	Page 1	Rev. 
	Scale	-.-		Lead Drawing			Of 1	No. 1
	© 2019 Tungaloy Corporation - Copyrights Notice			-.-			Reg.No.	
				FL-40032524			62312/1	
							A3L	

CUT101
OD Turning Rough
ASBNL3232P19-A
SNMG190616-HRM AH8015



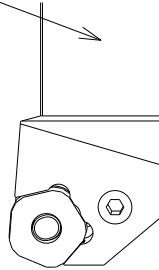
Turning A
AH8000

CUT101
OD Turning Rough
PPXOL3232P13-HD
POMG130612-MNW AH8015



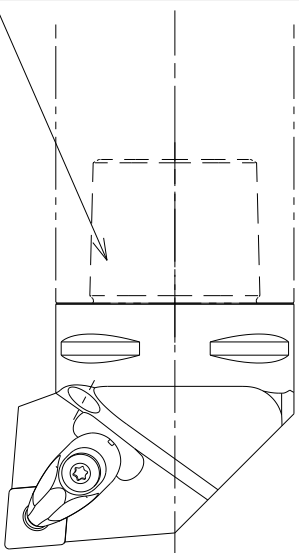
TurnTenFeed
AH8000

CUT101
OD Turning Rough
PPXOL3232P13-HF
POMG130612-MNW AH8015

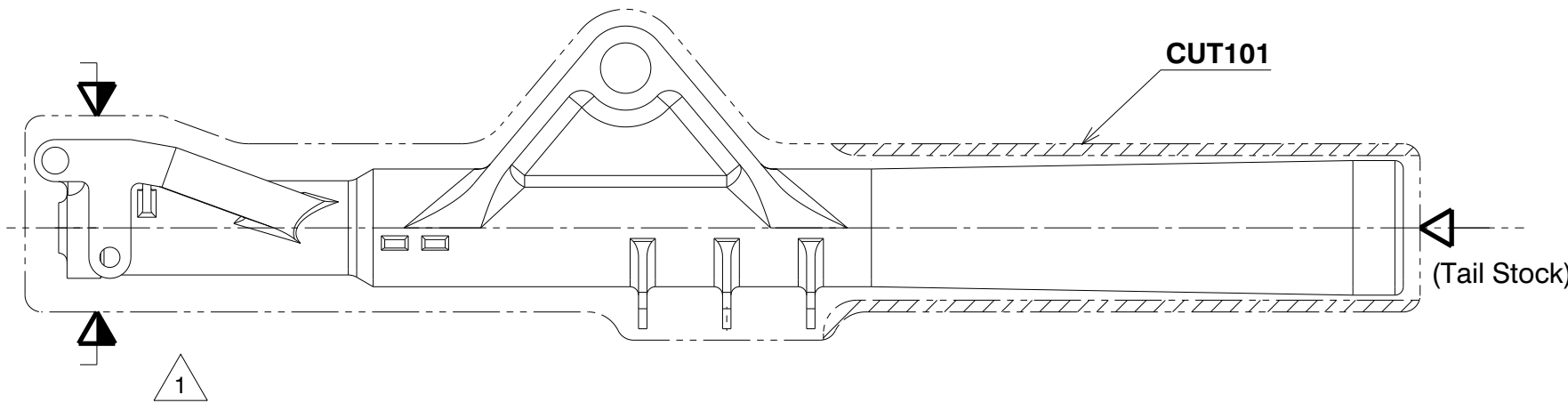


TurnTenFeed
AH8000

CUT101 
OD Turning Rough
C6ACLN45065-16N
CNMG160608-HRM AH8015



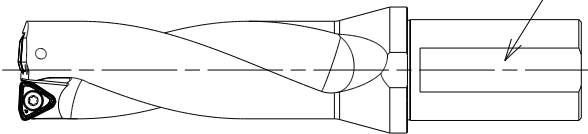
TungCap
TungTurn-Jet
AH8000



Lathe : O.D. Rough Turning

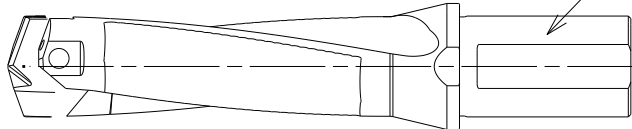
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Dim.s:	Design			Designation:		
-.-	Check			LAYOUT OP100-LANDING GEAR		Dwg.No. 32448865-HC
Angles:	Appr.			Process	Layout.	Page 1 Of 1
-.-	Scale	-		Concept		Rev. No. 
	© 2019 Tungaloy Corporation - Copyrights Notice			FL-40032524		Reg.No. 62312/1
						A3L

MODEL IN SCALE : Free TOOLS IN SCALE 1:3



CUT102
ID Guide Drilling
TDS400F40-3
WWMU11X512R-DS AH6030

TungSix-Drill



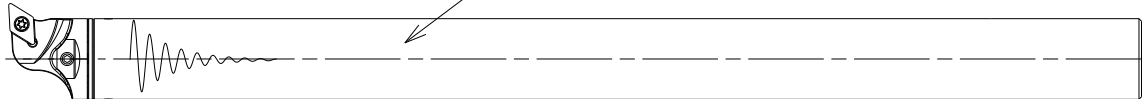
CUT102
ID Guide Drilling
TIS400F40-3
SMP400 AH725

DrillForceMeister



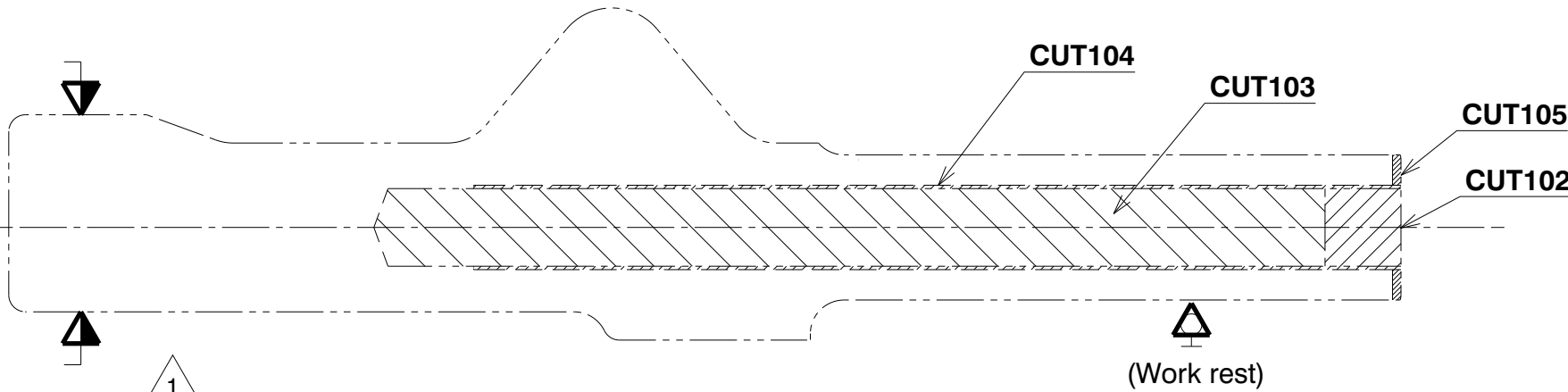
CUT103
ID Deep Drilling Finish
MCTR40.00XFM40-15
FBM080408L-G-C AH8015
FBM070404R-G-I AH8015
FBH090408R-G-P AH8015
FBM070404R-DL-I AH725

DeepTriDrill
AH8000

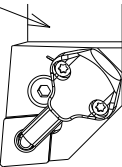


CUT104
ID Turning Finish
D32-L416-10D-C
S32-SDUCL11T-H
DCMT11T308-PSS AH8015

BoreMeister
AH8000



CUT 105
End Face Turning Finish
PCLNL2525M12-CHP
CNMG120408-HRF AH8015

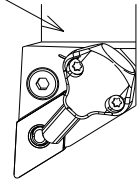


TungTurn-Jet
AH8000

Lathe : I.D. Turning / Face Turning

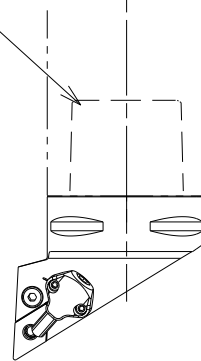
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Dim.s:	Design			Designation:		
-.-	Check			LAYOUT OP100-LANDING GEAR		Dwg.No. 32448865-HC1
Angles:	Appr.			Process	Layout.	Page 1 Of 1
-.-	Scale	-		Concept		Rev. No. 
	© 2019 Tungaloy Corporation - Copyrights Notice			FL-40032524		Reg.No. 62312/1
						A3L

CUT 106
OD Turning Finish
PDJNL2525M15-CHP
DNMG150408-HRF AH8015



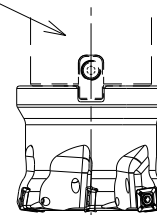
TungTurn-Jet
AH8000

CUT106
OD Turning Finish
C6PDJNL45065-15-CHP
DNMG150408-HRF AH8015



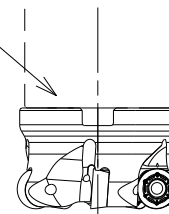
TungCap
TungTurn-Jet
AH8000

CUT107
OD High Feed Milling Rough
TXSW09M063B22.0R06
SWMT0904UER-MM AH130



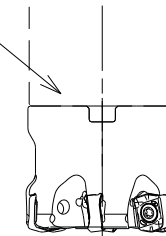
MillQuadFeed

CUT107
OD High Feed Milling Rough
TRP16R066M27.0E05
RPMT1606EN-ML AH4035



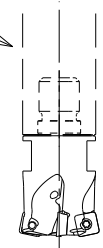
FixR-Mill

CUT107
OD High Feed Milling Rough
TXN06R063M22.0E06
LNMU06X5ZER-ML AH130

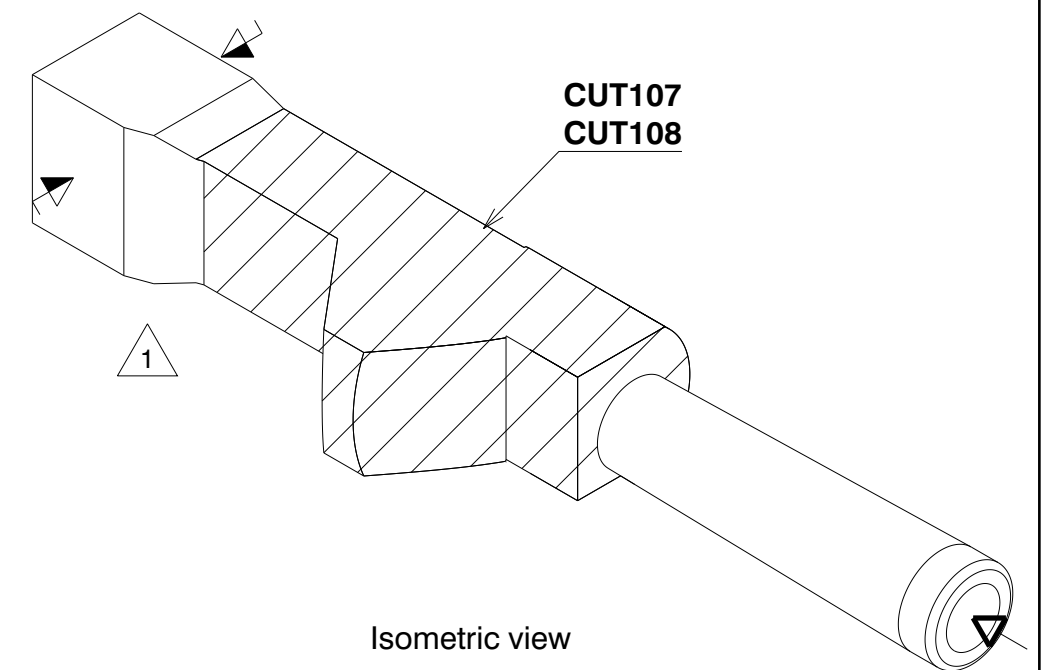
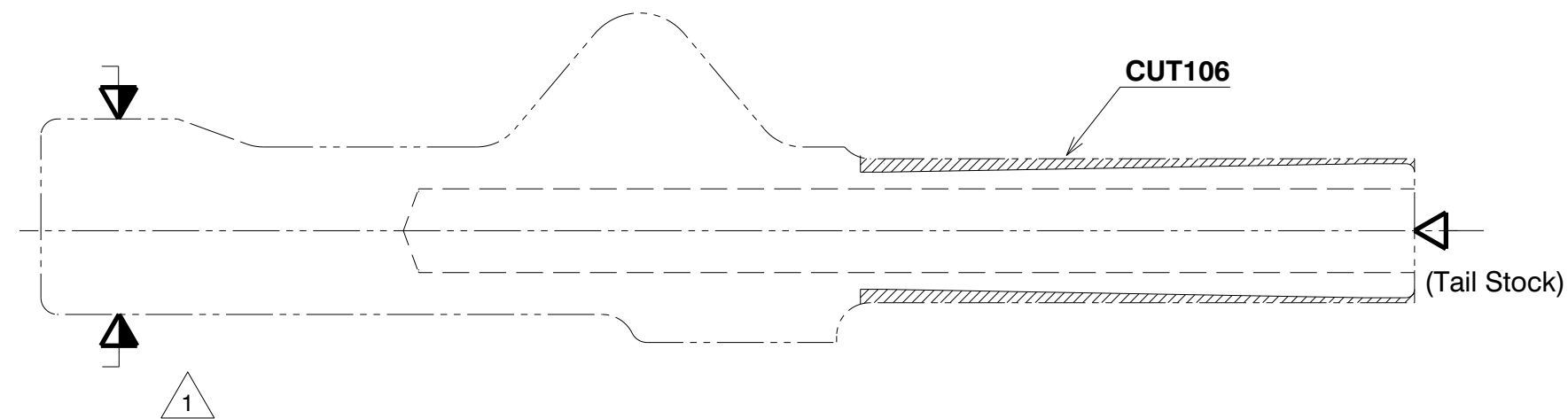


DoFeed

CUT108
OD High Feed Milling Rough
HXS09M032M16R04
SWMT0904ZER-MM AH3135



MillQuadFeed
TungFlex

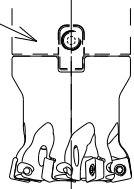


Isometric view

Lathe : O.D. Turning Finish
M/C : High Feed Milling Rough

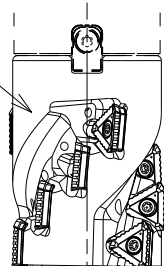
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Dim.s:	Design			Designation:		Dwg.No.
-.-	Check			LAYOUT OP100-LANDING GEAR		32448865-HC2
Angles:	Appr.			Process	Layout.	Page 1
-.-	Scale	-		Concept		Of 1
	© 2019 Tungaloy Corporation - Copyrights Notice			-.-		Rev. No.
				FL-40032524		Reg.No. 62312/1
						A3L

CUT109 
Out Side Profile Milling Rough
TXSW09M050B22.0R07
SWMT0904ZER-MM AH3135



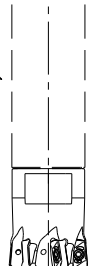
MillQuadFeed

CUT109
Out Side Shoulder Milling Rough
LPTC16M063B27.0L061R03
TCMT160620PDER-NMJ AH120



TungTriShred

CUT109 /110
Out Side Profile Milling Rough
HXN03R032MM16-06-C
LNMU0303ZER-ML AH130



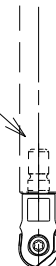
DoFeed
TungFlex

CUT111
Out Side Profile Millng Finish
HXLN04M025M12R03
LNMX0405R4-ML AH3135



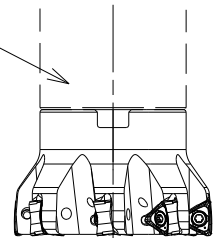
DoTwistBall
TungFlex

CUT111
Out Side Profile Millng Finish
HBFM16M08
ZFBM160R00-MJ AH725



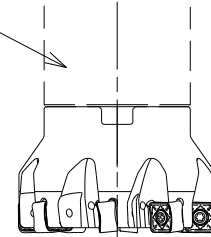
BallFinishNose
TungFlex

CUT112
Out Side Face Milling Finish
TPTN12M080B27.0R08
TNMU120708PER-MJ AH3135



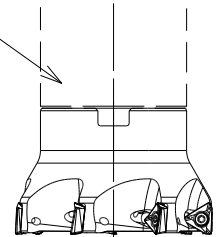
DoForceTri

CUT112 
Out Side Face Milling Finish
THSN12M080B27.0R08
SNMU120612EN-MM AH3135
SNMU120608HNEN-MM AH3135

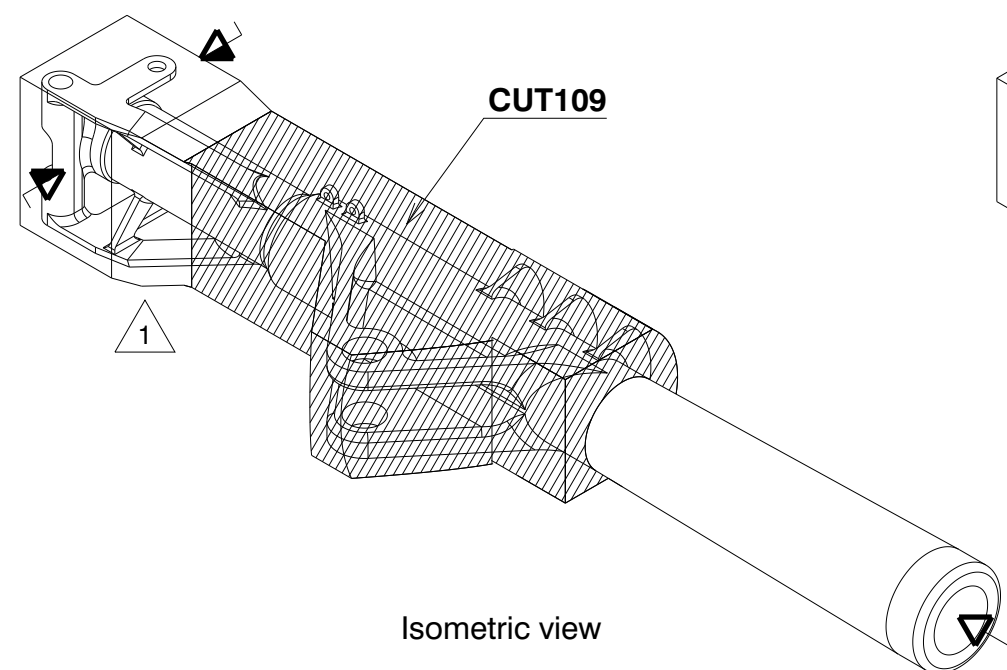


DoQuad-Mill

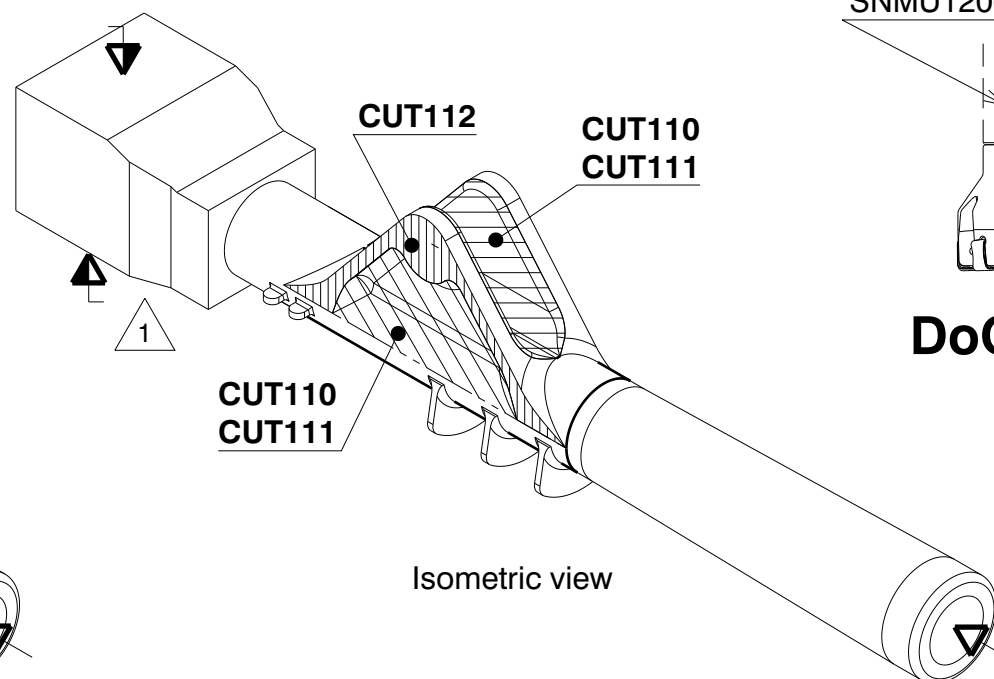
CUT112 
Out Side Face Milling Finish
TPA10R080M27.0E07
TOET100408PDER-MJ AH3135



TungTri

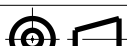


Isometric view



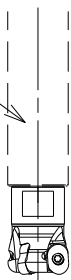
Isometric view

M/C : Out side Millng Rough / Finish

Unspecified Tolerances	Draw	-.-	-.-	Customer: TUNGALOY	Japan		
Dim.s:	Design			Designation:		Dwg.No. 32448865-HC3	
-.-	Check			LAYOUT OP100-LANDING GEAR		Page 1	Rev. 
Angles:	Appr.			Process	Layout.	Of 1	No. 1
-.-	Scale	-		Concept		Reg.No.	
	© 2019 Tungaloy Corporation - Copyrights Notice					62312/1	A3L
				FL-40032524			

MODEL IN SCALE : Free TOOLS IN SCALE 1:3

CUT113
Out Side Profile Millng Finish
HXLN04M025M12R03
LNMX0405R4-ML AH3135



DoTwistBall
TungFlex

CUT113 
Out Side Profile Millng Finish
HBFM20M10
ZFBM200R00-MJ AH725

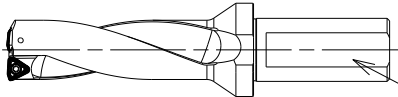


BallFinishNose
TungFlex

CUT113
Out Side Profile Milling Finish
VSSD16L090S10-C
VBD160L09.5-BG-02S10AH725

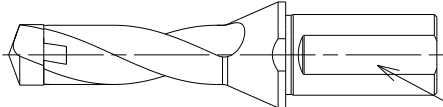


TungMeister



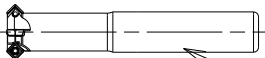
CUT114
Holemaking Rough
TDS245F25-3
WWMU060306R-DS AH6030

TungSix-Drill



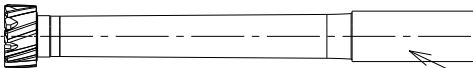
CUT114
Holemaking Rough
TID240F32-3
DMP246 AH725

DrillMeister



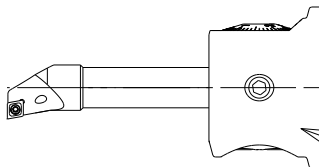
CUT115
Chamfering Finish
EASD05M016C16.0R04
SDMT050204PN-MJ AH725

TungQuad



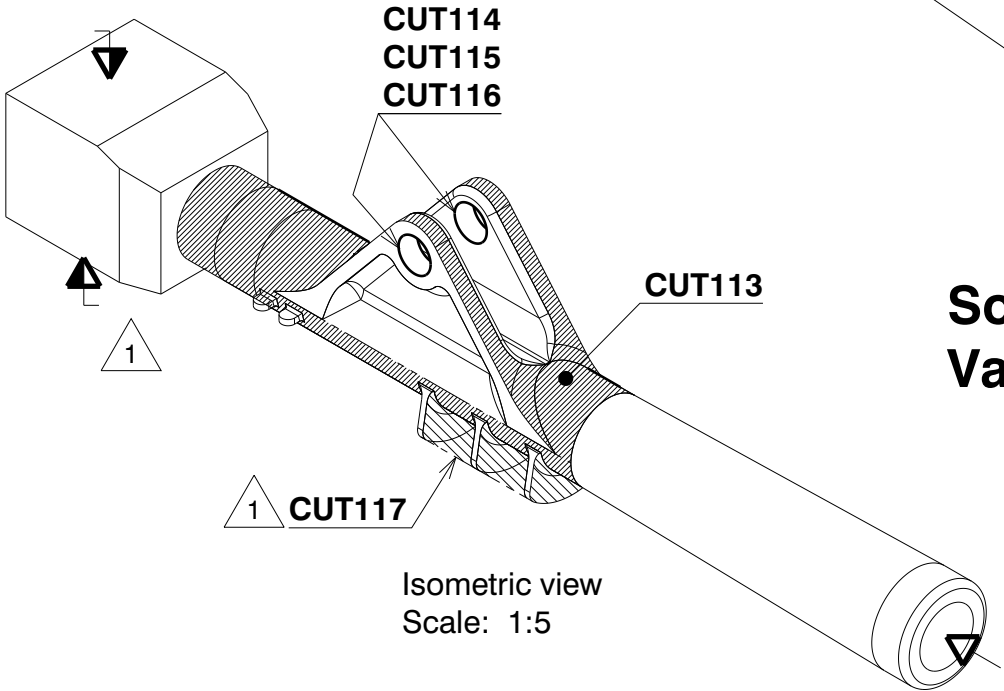
CUT116
Reaming
TRM-T8-R20-5
HRM-25.000-BL-T8 AH725

ReamMeister

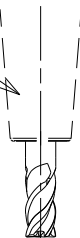


CUT116
Boring Finish
206.064.025.045
254.025.006.115
CCMT060204-PSS AH8015

SwissTool
AH8000



CUT117 
Shoulder Milling Finish
TECK120H4M-24C12CF-R06 AH725



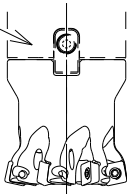
SolidMeister
VariableMeister

M/C : Profile Millng Finish / Holemaking

Unspecified Tolerances	Draw	-.-	-.-	Customer: TUNGALOY		Japan		
	Design			Designation:			Dwg.No.	
Dim.s:	Check			LAYOUT OP100-LANDING GEAR			32448865-HC4	
Angles:	Appr.			Process		Layout.	Page 1	Rev. 
	Scale	-		Concept			Of 1	No. 1
	© 2019 Tungaloy Corporation - Copyrights Notice			-			Reg.No.	
				FL-40032524			62312/1	

MODEL IN SCALE : Free TOOLS IN SCALE 1:3

CUT201 
Out Side Profile Milling Rough
TXSW09M050B22.0R07
SWMT0904ZER-MM AH3135



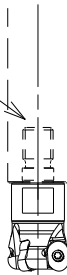
MillQuadFeed

CUT201
Out side Profile Milling Rough
HXLS02M016M08R05
LSMT0202ZER-HM AH3225



TungForceFeed
TungFlex

CUT202
Out Side Profile Milling Finish
HXLN04M025M12R03
LNMX0405R4-ML AH3135



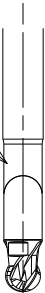
DoTwistBall
TungFlex

CUT202
Out Side Profile Milling Finish
HBFM16M08
ZFBM160R00-MJ AH725

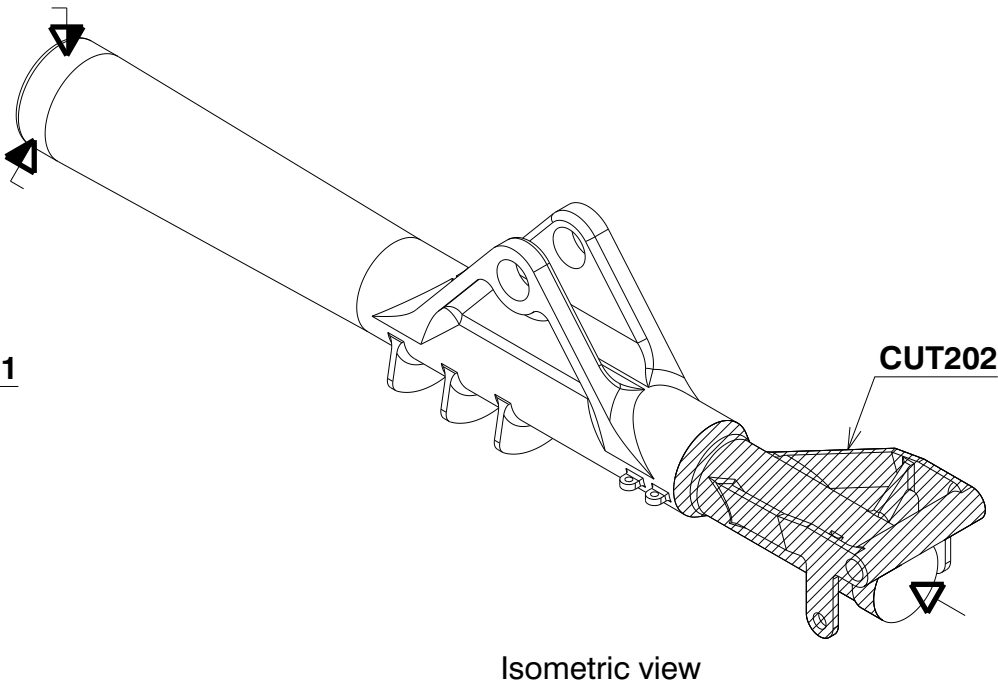
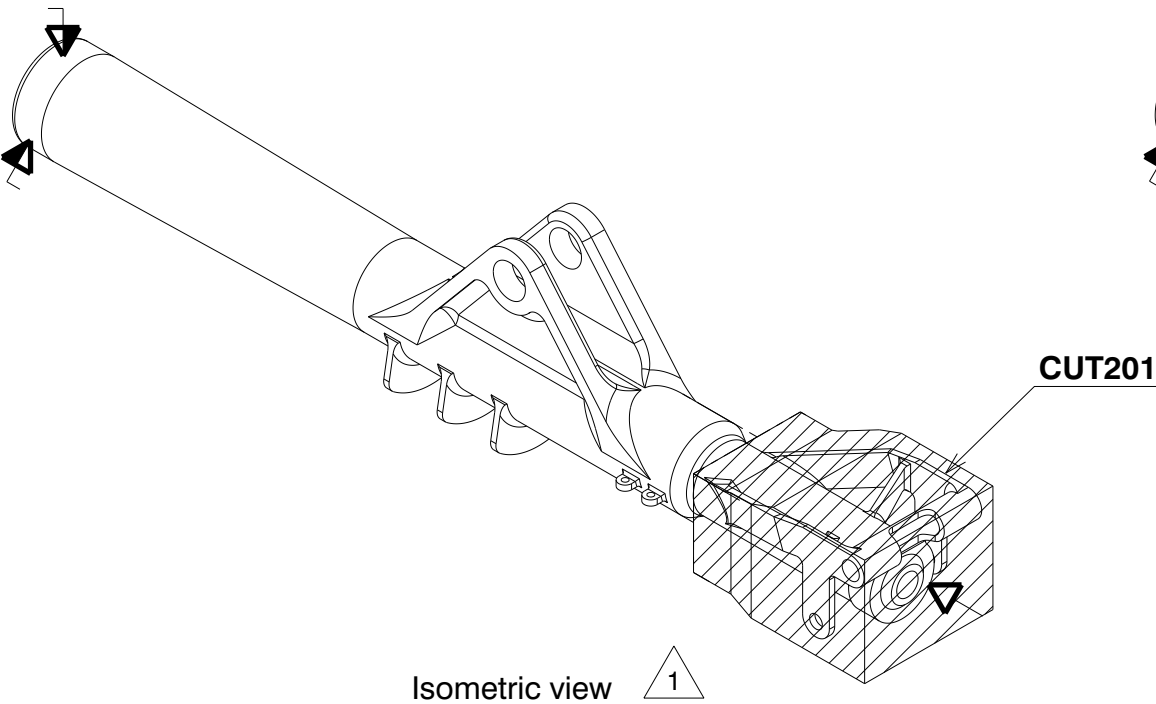


BallFinishNose
TungFlex

CUT202
Out Side Profile Milling Finish
VSSD16L090S10-C
VBD160L09.5-BG-02S10AH725



TungMeister



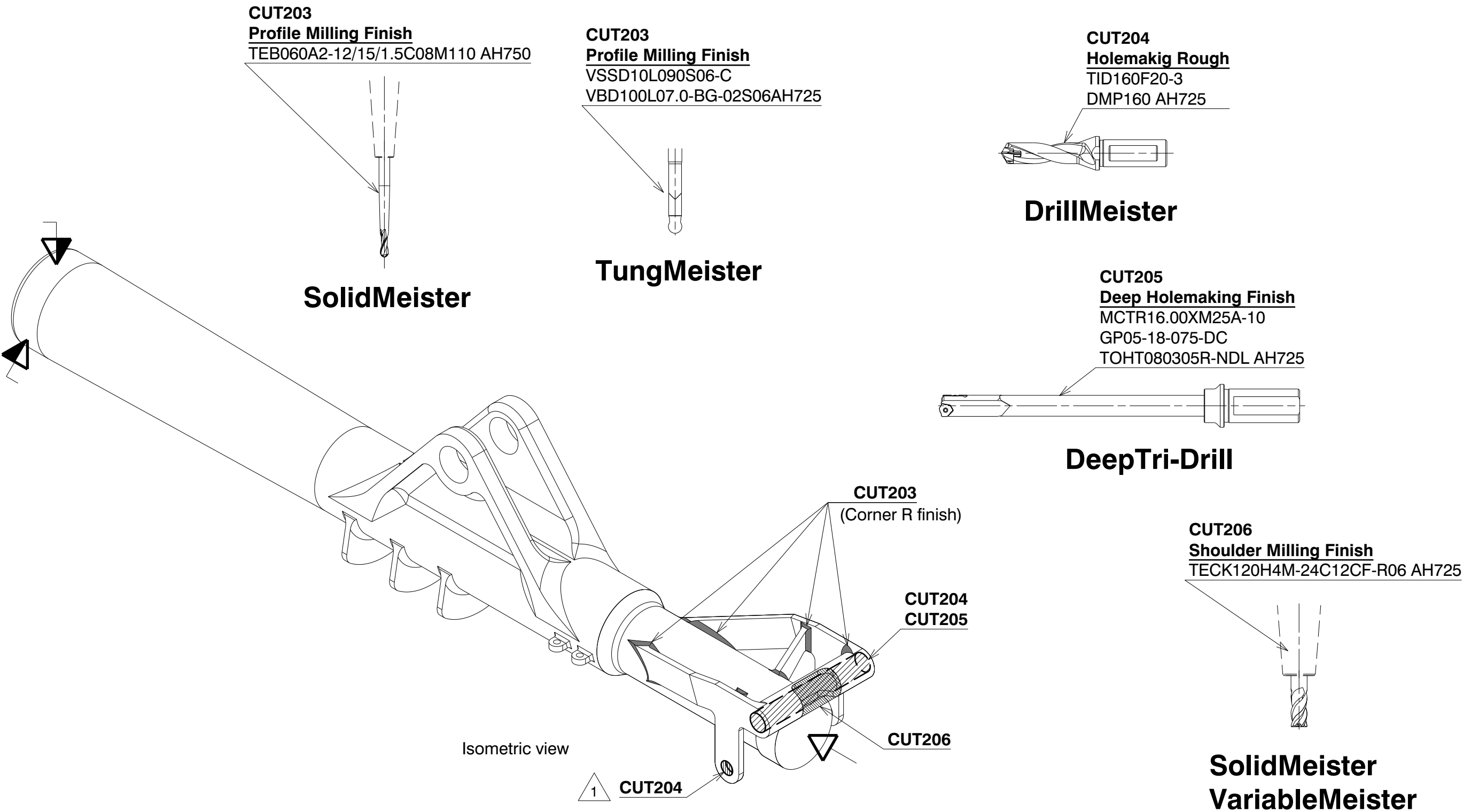
M/C : Out side Milling Rough / Finish

Unspecified Tolerances	Draw	-.-	-.-	Customer: TUNGALOY		Japan	Member MTC Group 	
	Design			Designation:			Dwg.No. 32448865-HC5	
Dim.s: -.-	Check			LAYOUT OP200-LANDING GEAR				
Angles: -.-	Appr.			Process		Layout.	Page 1	Rev. 
	Scale	-		Concept			Of 1	No. 
	© 2019 Tungaloy Corporation - Copyrights Notice			-.-			Reg.No.	
				FL-40032524			62312/1	A3L

MODEL IN SCALE : Free TOOLS IN SCALE 1:3

Rev.No.: 1 Alteration:Add Cut

Date: 08/03/21 Name:abe_s

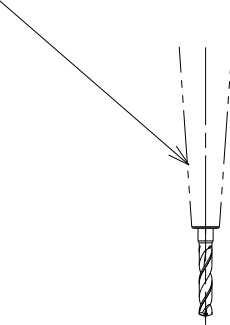


M/C : Profile Millng Finish / Holmaking
/ Shoulder Milling

Unspecified Tolerances	Draw	-.-	-.-	Customer: TUNGALOY	Japan		
Dim.s:	Design			Designation:		Dwg.No.	32448865-HC6
-.-	Check			LAYOUT OP200-LANDING GEAR		Page 1	Rev. No. 1
Angles:	Appr.			Process	Layout.	Of 1	
-.-	Scale	-		Concept		Reg.No.	62312/1
				-.-			A3L
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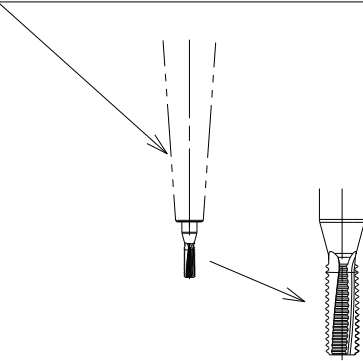
MODEL IN SCALE : Free TOOLS IN SCALE 1:3

CUT207
Pre Holemaking Rough
DSW051-020-06DE3 AH725



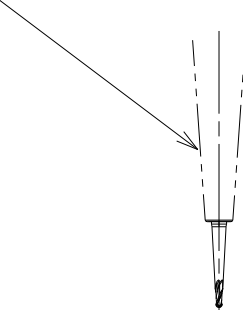
SolidDrill

CUT208
Unified Threading Finish
MTEC06045C1220UN AH725

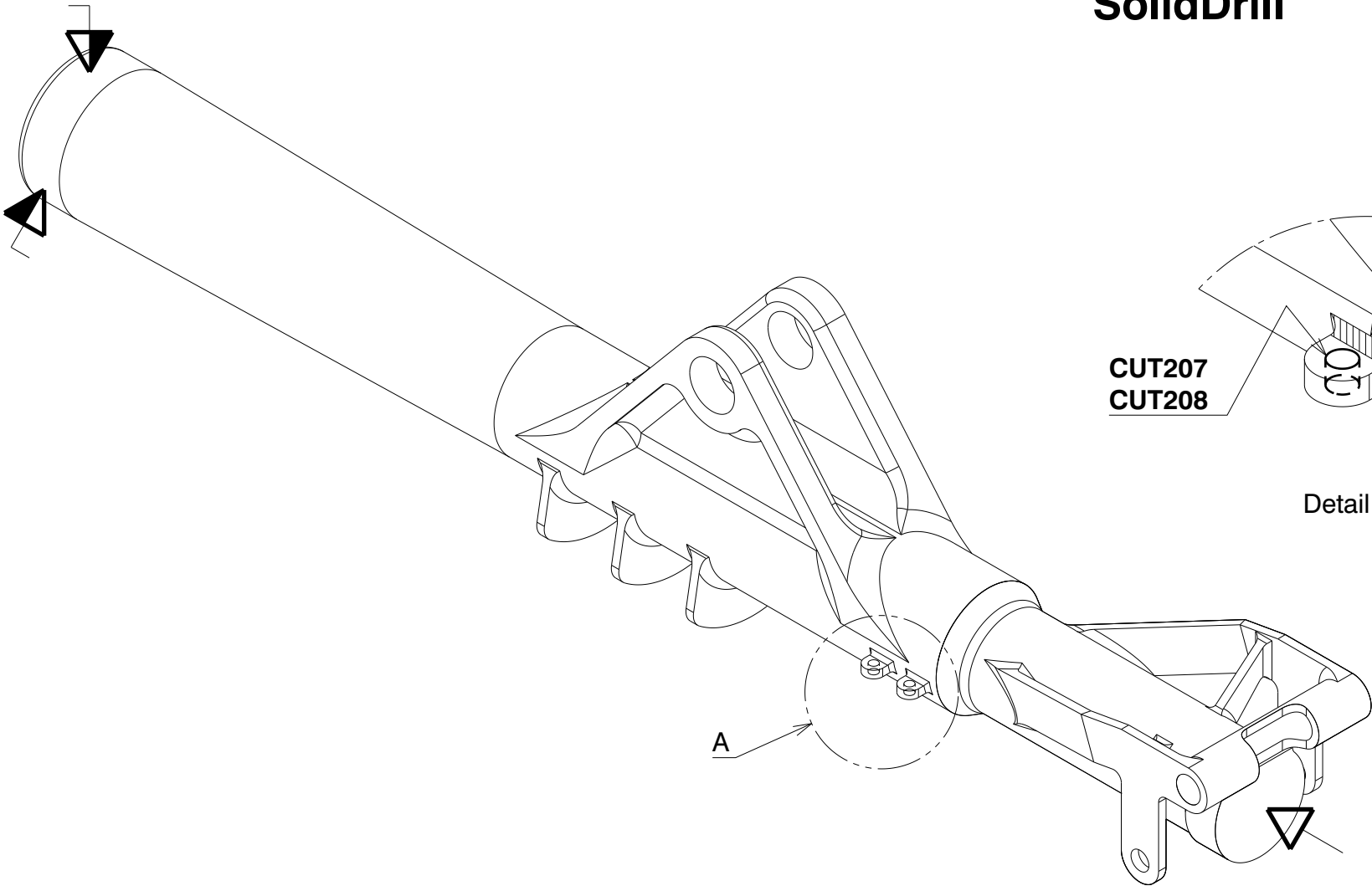


ThreadMilling

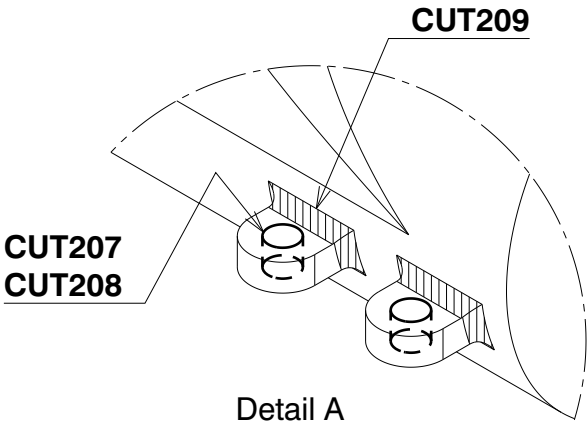
CUT209
Profile Milling Finish
TEB030A2-06/08/3.0C06M70 AH725



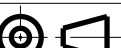
SolidMeister



Isometric view



M/C : Threading / Pofile Milling Finish

Unspecified Tolerances	Draw	-.-	-.-	Customer: TUNGALOY		Japan		
	Design			Designation:			Dwg.No.	
Dim.s:	Check			LAYOUT OP200-LANDING GEAR			32448865-HC7	
Angles:	Appr.			Process		Layout.	Page 1	Rev. 
	Scale	-		Concept			Of 1	No. 0
	© 2019 Tungaloy Corporation - Copyrights Notice			-			Reg.No.	
				FL-40032524			62312/1	
							A3L	